FOR OPPICATIONS OFFI Scientific and Technical Information Center SEARCH REQUEST FORM Zamestar's Nell Monga; Art Unit: Phone Number 2: Ramillo Format Preferred (circle): FAPER (Mailles #) Location (Ridg/Room#) ******************* To assess an efficient and quality marry, please attend a copy of the owner about, chillie, and abstract or SS and the following: **Bartlest Pricetty Date** Plants granded a destailed environment of the execute again, and destroits an exemplantly an possible the employ master to be executed. In close the aparties dominis au aparaposato personnes fromentants encontrate una calingala armagent una consepte entre que consebte en regista el que consequen Influe way swap that may have a quartal manning. Give computer or ratement countries, austine, and, if homes "For Superant Startlies Only" Show include all partners deformation (percent, child, distribute, or insued passes namines) along with the sakutan hinist menergapa

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FILE 'HCAPLUS' ENTERED AT 08:42:20 ON 29 AUG 2008
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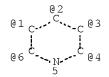
FILE COVERS 1907 - 29 Aug 2008 VOL 149 ISS 10 FILE LAST UPDATED: 28 Aug 2008 (20080828/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d stat que 120 L13 STF



VAR G2=1/2/3/4/6 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC I NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L15 78538 SEA FILE=REGISTRY SSS FUL L13

L16 STR



VAR G2=1/2/3/4/6

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L17 3306 SEA FILE=REGISTRY SUB=L15 SSS FUL L16

L18 STR

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VAR G3=14/19/22/28/31

REP G4=(0-2) CH2

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L19 49 SEA FILE=REGISTRY SUB=L17 SSS FUL L18 L20 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L19

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=> d ibib abs hitstr 120 1-20

L20 ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:630157 HCAPLUS Full-text

DOCUMENT NUMBER: 145:83233

TITLE: Preparation of (3-alkoxypropyl)pyridinyl ketones with

herbicidal activities

INVENTOR(S): Wendeborn, Sebastian Volker; Beaudegnies, Renaud;

Edmunds, Andrew; Luethy, Christoph; Schaetzer, Juergen

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	PATENT NO.					D	DATE		•	APPL	ICAT	ION 1	NO.		D.	ATE	
WO	2006	0668	71		A1	_	2006	0629		 WO 2	005-	EP13	707		2	0051	220
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
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		KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
		VN,	YU,	ZA,	ZM,	ZW											
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		IS,	ΙT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MΖ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ТJ,	TM										
CA	2587	882			A1		2006	0629		CA 2	005-	2587	882		2	0051	220
EP	1828	132			A1		2007	0905		EP 2	005-	8221	05		2	0051	220
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		IS,	ΙT,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR	
MX	MX 200707256						2007	0711		MX 2	007-	7256			2	0070	615
PRIORIT	ORITY APPLN. INFO.:									GB 2	004-	2813	7		A 2	0041	222
										WO 2	005-	EP13	707	,	W 2	0051	220
OTHER SO	CR SOURCE(S):					REAC	T 14	5 : 83:	233;	MAR	PAT	145:	8323	3			

$$\mathbb{R}^4$$
 \mathbb{R}^3
 \mathbb{R}^4
 \mathbb{R}^3
 \mathbb{R}^4
 \mathbb{R}^5
 \mathbb{R}^4
 \mathbb{R}^5
 \mathbb{R}^6
 \mathbb{R}^6

Title compds. I [wherein A1 = C(R1R2)p; A2 = C(R6R7)q; p, q = 1-2; R1 - R8 (independently) = H, Me or Et; R9 = alkyl; R10 = H, halo or (halo)alkyl] and agronomically acceptable salts, isomers, enantiomers, tautomers or N-oxides thereof were prepared as herbicides. Some intermediates for the preparation of I are claimed. For instance, successive Pd/C-mediated dechlorination of 6-(chlorodifluoromethyl)-2-(3-methoxypropyl)nicotinic acid Me ester with H2, ester hydrolysis with LiOH, chlorination of the resultant acid with oxalyl chloride, O-acylation of bicyclo[3.2.1]octane- 2,4-dione with the generated acyl chloride, and isomerization gave C-acylated compound II. Both preemergence and post-emergence herbicidal activities of representative I were evaluated. Those compds. generally exhibited stronger activities than structurally similar compds. reported previously. It has been found that the alkylene linkage in the 2th position of the pyridine ring plays a significant role on the activities, with propylene being the strongest one.

IT 894355-76-1 894355-77-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of alkoxypropylpyridinyl ketones with herbicidal activities)

RN 894355-76-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(chlorodifluoromethyl)-2-(3-methoxypropyl)-,

methyl ester (CA INDEX NAME)

RN 894355-77-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(difluoromethyl)-2-(3-methoxypropyl)-, methyl

ester (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:673266 HCAPLUS Full-text

DOCUMENT NUMBER: 143:172764

TITLE: Pyridylmethyl derivatives of 2,6-dichloroisonicotinic

acid as disease controlling agents for agriculture and

horticulture, process for their preparation

INVENTOR(S): Watanabe, Tsumoru; Araki, Nobuyuki; Kusano, Nobuyuki;

Kokaji, Yuichi; Niizeki, Yoshitaka

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D	ATE	
						_									_		
WO 2005068430					A1		2005	0728		WO 2	005-	JP21	1		2	0050	112
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: JP 2004-5283 A 20040113

OTHER SOURCE(S):

MARPAT 143:172764

GΙ

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Title compds. I [A = O, etc.; Q = II, etc.; X = alkyl, etc.; m = 0-4] were prepared Process for the preparation of compds. I [A, Q, X, m = same as above] was provided. For example, treatment of 2,6-dichloroisonicotinic acid (4.55 g) with 6-chloro-3-pyridinemethanol (3.09 mL), 4- dimethylaminopyridine (0.26 g) and 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide hydrochloride (4.95 g) in THF (93 mL) at room temperature for 24 h followed by silica-gel purification afforded compound III (6.51 g). In control test against pyricularia oryzae, compound III exhibited the activity of 100%. Compds. I are claimed useful as disease controlling agents for agriculture and horticulture. Formulations are given.

ΙT 860774-80-7P 860775-01-5P 860775-04-8P 860775-06-0P

> RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pyridylmethyl derivs. of 2,6-dichloroisonicotinic acid as disease controlling agents for agriculture and horticulture, process for their preparation)

860774-80-7 HCAPLUS RN

4-Pyridinecarboxylic acid, 2,6-dichloro-, [6-(trifluoromethyl)-3pyridinyl]methyl ester (CA INDEX NAME)

RN 860775-01-5 HCAPLUS

4-Pyridinecarboxylic acid, 2,6-dichloro-, [4-(trifluoromethyl)-3-CN pyridinyl]methyl ester (CA INDEX NAME)

RN 860775-04-8 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2,6-dichloro-, [2-methyl-6-(trifluoromethyl)-3-pyridinyl]methyl ester (CA INDEX NAME)

RN 860775-06-0 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2,6-dichloro-, [6-chloro-4-(trifluoromethyl)-3-pyridinyl]methyl ester (CA INDEX NAME)

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:564643 HCAPLUS Full-text

DOCUMENT NUMBER: 143:97268

TITLE: Preparation of substituted pyridines as herbicides INVENTOR(S): Luethy, Christoph; Edmunds, Andrew; Beaudegnies, Renaud; Wendeborn, Sebastian; Schaetzer, Juergen

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 70 pp.

COPEN PINES

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT N	PATENT NO.				D i	DATE		ì	APPL	ICAT	ION 1	. O <i>l</i> .		D	ATE	
					-									_		
WO 20050	5883	31		A1		2005	0630	Ī	WO 2	004 - 1	EP14:	123		20	0041	210
W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KΖ,	LC,
	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

CH 2003-2129

A 20031212

OTHER SOURCE(S):

CASREACT 143:97268; MARPAT 143:97268

GI

Title compds. I [R1 = alkylene, alkenylene, alkynylene, etc.; X1 = 0, OCO, CO, etc.; R2 = alk(en/yn)yl, cycloalkyl, etc.; R3 = OM; M = metal cation, ammonium salt, etc.; R4 = halo, haloalkyl, CN, etc.; R5-8 = H, alkyl, alkylthio, alkylsulfinyl, etc.; A = bond, divalent alkyl; Y = alkylene, etc.] are prepared For instance, 4-hydroxy-3-[6-(2-methoxyethoxymethyl)-5-trifluoromethylpyridinyl-2-carbonyl]bicyclo[3.2.1]oct-3-en-2-one (II) is prepared from 6-(2-methoxyethoxymethyl)-5-trifluoromethylpyridine-2-carboxylic acid chloride and 1,3-bicyclo[3.2.1]octanedione. In a preemergence assay II at 250 g/ha exhibits good herbicidal action against, e.g., Panicum, Ipomea.

IT 1042731-84-9 1042731-85-0 1042731-86-1

RL: PRPH (Prophetic)

(Preparation of substituted pyridines as herbicides)

TT

RN 1042731-84-9 HCAPLUS

CN 2-Pyridinecarboxylic acid, 6-(methoxymethyl)-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

RN 1042731-85-0 HCAPLUS

CN 2-Pyridinecarboxylic acid, 6-(2-methoxyethyl)-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

$$C$$
 OEt CH_2 CH₂— CH₂— OMe

1042731-86-1 HCAPLUS RN

CN 2-Pyridinecarboxylic acid, 6-(3-methoxypropyl)-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

$$\begin{array}{c}
\text{O} \\
\text{C} \\
\text{OEt} \\
\text{N} \\
\text{CH}_2)_3 - \text{OMe}
\end{array}$$

856014-04-5P ΙT

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of substituted pyridines as herbicides)

856014-04-5 HCAPLUS

CN 2-Pyridinecarboxylic acid, 6-[(2-methoxyethoxy)methyl]-5-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

$$CH_2-O-CH_2-CH_2-OMe$$

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:564642 HCAPLUS Full-text

DOCUMENT NUMBER: 143:97267

TITLE: Preparation of substituted pyridines as herbicides INVENTOR(S): Luethy, Christoph; Edmunds, Andrew; Beaudegnies,

Renaud; Wendeborn, Sebastian; Schaetzer, Juergen;

Lutz, William

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 151 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA.	PATENT NO.					D	DATE			APPL	ICAT	ION I	NO.		D	ATE	
WO	2005	0588	30		A1		2005	0630		 WO 2	004-	 EP14	 113		2	0041	210
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		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NΙ,
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AU	2004	2992.	35		A1		2005	0630		AU 2	004-	2992.	35		2	0041	210
CA	2547	600			A1		2005	0630	i	CA 2	004-	2547	600		2	0041	210
EP	1692	108			A1		2006	0823		EP 2	004-	8037	54		2	0041	210
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BR	2004	0169	83		Α		2007	0221		BR 2	004-	1698.	3		2	0041	210
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US	2007	0167	631		A1		2007	0719		US 2	006-	5962	97		2	0060	608
IN	2006	CN02	090		Α		2007	0706		IN 2	006-	CN20	90		2	0060	612
CIORIT	Y APP	LN.	INFO	.:					1	CH 2	003-	2128			A 2	0031	212
									,	WO 2	004-	EP14	113	,	W 2	0041	210
THER SO	SOURCE(S):					REAC	T 14	3:97	267 ;	MAR	PAT	143:	9726	7			

AB Title compds. I [R1 = bond, alkylene, alkenylene, etc.; R2 = halo, haloalkyl, CN, etc.; R3 = OH, OM; M = metal cation, ammonium cation, etc.; A1 = divalent alkyl, amino; A2 = divalent alkyl, CO, O, etc.; A3 = divalent alkyl, amino] are prepared For instance, 2-[6-(thiomorpholin-4-yl)-5-trifluoromethylpyridine-2-carbonyl]cyclohexane-1,3-dione (II) is prepared from 6-(thiomorpholin-4-yl)-5-trifluoromethylpyridine-2-carboxylic acid, oxalyl chloride and cyclohexane-1,3-dione. In an herbicidal pre-emergence test, II shows good herbicidal action on, e.g., Panicum, Digitaria, Echinochloa, etc. at 250 g/ha.

IT 1044037-21-9

RL: PRPH (Prophetic)

(Preparation of substituted pyridines as herbicides)

RN 1044037-21-9 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:756694 HCAPLUS Full-text

DOCUMENT NUMBER: 141:277496

TITLE: Process for the preparation of substituted nicotinic

acid esters

INVENTOR(S): Jackson, David Anthony; Bowden, Martin Charles

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.				KINI		DATE			APP:	LICAT	ION	NO.		D	ATE		
WC) 2	0040	7872	 29				2004	0916		WO .	 2004-	 EP22	 91		2	0040	 305
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EF	1	6016	553			A1		2005	1207		EP .	2004-	7175	74		2	0040	305
]	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	ΗU,	PL,	SK
CN	1 1	7538	372			Α		2006	0329		CN .	2004-	8000	4908		2	0040	305
			0081									2004-						
JE	2	0065	51980	03		Τ		2006	0831		JP .	2006-	5045	64		2	0040	305
ZP	2	0050	0569	96		Α		2006	0329		ZA .	2005-	5696			2	0050	715
US	3 2	0060	1999	964		A1		2006	0907		US .	2005-	5478	40		2	0050	906
IN	1 2	0050	CN02	175		Α		2007	0831		IN.	2005-	CN21	75		2	0050	906
ORIT	Y 2	APPI	_N. :	INFO	.:						CH .	2003-	373		Ž	A 2	0030	307
											WO .	2004-	EP22	91	Ī	W 2	0040	305
ER S	SOUI	RCE	(S):			MARI	PAT	141:	2774	96								

OTHER SOURCE(S): MARPAT 141:277496

$$R^{5}$$
 R^{4}
 R^{1}
 R^{1}
 R^{1}
 R^{2}
 R^{3}
 R^{5}
 R^{4}
 R^{1}
 R^{1}
 R^{1}
 R^{1}
 R^{2}
 R^{1}
 R^{2}
 R^{1}

AB A process for the preparation of substituted nicotinic acid esters I [R = alkyl; R1 = (un)substituted alkylene, alkenylene; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R4 = haloalkyl; R5 = hydroxy, cycloalkyloxy, (alkoxy)alkoxy, etc.; X = O, OCO, CO2, etc.], which process comprises reacting a compound of formula II [R3 = (cyclo)alkyl, R4and R4 are defined as above] with a compound of formula III (R, R1, R2 and X are defined as above) in an inert solvent in the presence of a proton source, is disclosed. For example, reaction of Et 3-oxo-4-methoxyethoxybutanoate with 1-ethoxy-3-oxo-4,4,4-trifluorobutene gave 2-methoxyethoxymethyl-3- ethoxycarbonyl-6-trifluoromethylpyridine in 62% yield. Thus, the present invention provides a novel process producing the title compound at reasonable cost, in good yield and with good quality.

IT 757218-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of nicotinic acid esters)

RN 757218-51-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:454035 HCAPLUS Full-text

DOCUMENT NUMBER: 139:18606

TITLE: Synergistic herbicidal compositions

INVENTOR(S): Rueegg, Willy T.

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                      KIND DATE
                                        APPLICATION NO.
                                                              DATE
                       ____
                              _____
                                         _____
    WO 2003047344
                              20030612
                                        WO 2002-EP13618
                       A1
                                                               20021202
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
            CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                       A1 20030617
    AU 2002361968
                                        AU 2002-361968
                                                               20021202
PRIORITY APPLN. INFO.:
                                         CH 2001-2208
                                                           A 20011203
                                         WO 2002-EP13618
                                                          W 20021202
OTHER SOURCE(S):
                      MARPAT 139:18606
GΙ
```

AB Synergistic herbicidal compns. comprise I and any of a large number of herbicides, such as prosulfocarb, picolinafen, pyraflufen-Et, beflubutamid, fenoxaprop-P-Et, diclofop-Me, amidosulfuron, flupyrsulfuron, flupyrsulfuron-methyl-sodium, metsulfuron-Me, sulfosulfuron, tribenuron-Me, imazamethabenz-Me, flucarbazone, chlorotoluron, isoproturon, methabenzthiazuron, bifenox, fluoroglycofen-Et, imazosulfuron, diflufenican, bilalafos, ethalfluralin, trifluralin, fluthiamid, isoxaben, triallate, 2,4-DB, dichlorprop, MCPA, MCPB, mecoprop, MCPP, mecoprop-P, clopyralid, fluroxypyr, quinmerac, benazolin-Et, difenzoquat, cyhalofop-Bu, dithiopyr, quinclorac, prodiamine, benefin and trifluralin. The compns. may also comprise a safener.

IT 537015-81-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic herbicidal composition)

RN 537015-81-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-6-(trifluoromethyl)-, methyl ester, monosodium salt, mixt. with 4-hydroxy-3-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-3-pyridinyl]carbonyl]bicyclo[3.2.1]oct-3-en-2-one (9CI) (CA INDEX NAME)

CM 1

CRN 352010-68-5 CMF C19 H20 F3 N O5

CM 2

CRN 144740-54-5

CMF C15 H14 F3 N5 O7 S . Na

Na

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:454034 HCAPLUS Full-text

DOCUMENT NUMBER: 139:18605

TITLE: Synergistic herbicidal compositions

INVENTOR(S):
Rueegg, Willy T.

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	PATENT NO.				D	DATE			APPL	ICAT	ION I	NO.		D	ATE	
WO 200	 30473	 43		A1	_	2003	 0612	,	WO 2	002-	EP13	 616		2	0021	202
W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM, HR, HU LS, LT, LU		HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
	UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZM,	ZW							
RW	: GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	SI,	SK,	TR,	BF,	ВJ,
	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
AU 200	AU 2002365631					2003	0617		AU 2	002-	3656	31		2	0021	202

PRIORITY APPLN. INFO.: CH 2001-2213 A 20011203 WO 2002-EP13616 W 20021202

OTHER SOURCE(S): MARPAT 139:18605

GΙ

AB Synergistic herbicidal compns. comprise I and any of a large number of herbicides, such as prosulfocarb, picolinafen, pyraflufen-Et, beflubutamid, fenoxaprop-P- Et, diclofop-Me, amidosulfuron, flupyrsulfuron, flupyrsulfuron-methyl-sodium, metsulfuron-Me, sulfosulfuron, tribenuron-Me, imazamethabenz-Me, flucarbazone, chlorotoluron, isoproturon, methabenzthiazuron, bifenox, fluoroglycofen-Et, imazosulfuron, diflufenican, bialafos, ethalfluralin, trifluralin, fluthiamide, isoxaben, triallate, 2,4-DB, dichlorprop, MCPA, MCPB, mecoprop, MCPP, mecoprop-P, clopyralid, fluroxypyr, quinmerac, benazolin-Et difenzoquat, cyhalofop-Bu, dithiopyr, quinclorac, prodiamine, benefin and trifluralin. The compns. optionally comprise a safener.

IT 537005-37-1 537005-60-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic herbicidal composition)

RN 537005-37-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(4,5-dihydro-2-thiazolyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester, mixt. with 3-hydroxy-2-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-3-pyridinyl]carbonyl]-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

CM 1

CRN 380354-72-3 CMF C17 H18 F3 N O5

CM 2

CRN 117718-60-2

CMF C16 H17 F5 N2 O2 S

$$\begin{array}{c|c}
F_3C & N & CHF_2 \\
N & & C-OMe
\end{array}$$

RN 537005-60-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-6-(trifluoromethyl)-, methyl ester, monosodium salt, mixt. with 3-hydroxy-2-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-3-pyridinyl]carbonyl]-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

CM 1

CRN 380354-72-3 CMF C17 H18 F3 N O5

CM 2

CRN 144740-54-5 CMF C15 H14 F3 N5 O7 S . Na

Na

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:454033 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 139:18604

TITLE: Synergistic herbicidal compositions

INVENTOR(S): Rueegg, Willy T.

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 184 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.					D	DATE				LICAT				D	ATE	
WO	2003	0473			A1		2003	0612							2	0021	202
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NΖ,	OM,	PH,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW							
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		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	ΝL,	PT,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG		
CA	2466	554			A1		2003	0612		CA 2	2002-	2466	554		2	0021	202
AU	2002	3619	67		A1		2003	0617		AU 2	2002-	3619	67		2	0021	202
AU	2002	3619	67		В2		2006	0608									
EP	1450	607			A1		2004	0901		EP 2	2002-	7965	59		2	0021	202
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	ΑL,	TR,	BG,	CZ,	EE,	SK		
MX	2004	PA05	264		Α		2004	1011		MX 2	2004 - 1	PA52	64		2	0040	601
US	US 20050054533						2005	0310		US 2	2004-	4976	14		2	0040	602
PRIORIT	RITY APPLN. INFO.:									CH 2	2001-	2214		-	A 2	0011	203
										WO 2	2002-	EP13	615	,	W 2	0021	202
OTHER S	OURCE		MAR:	PAT	139:	1860	4										

GΙ

AΒ A synergistic herbicidal composition comprises I and any of a large number of herbicides, such as prosulfocarb, picolinafen, pyraflufen-Et, beflubutamid, fenoxaprop-P-Et, diclofop-Me, amidosulfuron, flupyrsulfuron, flupyrsulfuronmethyl-sodium, metsulfuron-Me, sulfosulfuron, tribenuron-Me, imazamethabenz-Me, flucarbazone, chlorotoluron, isoproturon, methabenzthiazuron, bifenox, fluoroglycofen-Et, imazosulfuron, diflufenican, bilanafos, ethalfluralin, trifluralin, fluthiamide, isoxaben, triallate, 2,4-DB, dichlorprop, MCPA, MCPB, mecoprop, MCPP, mecoprop-P, clopyralid, fluroxypyr, quinmerac, benazolin-Et, difenzoquat, cyhalofop-Bu, dithiopyr, quinclorac, prodiamine, benefin and trifluralin. The compns. optionally comprise a safener.

537015-81-9 ΙT

> RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic herbicidal composition)

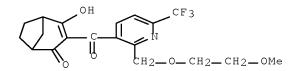
537015-81-9 HCAPLUS RN

CN 3-Pyridinecarboxylic acid, 2-[[[[(4,6-dimethoxy-2pyrimidinyl)amino]carbonyl]amino]sulfonyl]-6-(trifluoromethyl)-, methyl

ester, monosodium salt, mixt. with 4-hydroxy-3-[[2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-3-pyridinyl]carbonyl]bicyclo[3.2.1]oct-3-en-2-one (9CI) (CA INDEX NAME)

CM 1

CRN 352010-68-5 CMF C19 H20 F3 N O5



CM 2

CRN 144740-54-5

CMF C15 H14 F3 N5 O7 S . Na

🔴 Na

L20 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1999:529133 HCAPLUS Full-text

DOCUMENT NUMBER: 131:157711

TITLE: Preparation of pyridinecarboxylates and analogs as

cholesteryl ester transfer protein inhibitors

INVENTOR(S): Lee, Len F.; Glenn, Kevin C.; Connolly, Daniel T.;

Corley, David G.; Flynn, Daniel L.; Hamme, Ashton; Hegde, Shridhar G.; Melton, Michele A.; Schilling,

Roger J.; Sikorski, James A.; Wall, Nancy N.;

Zablocki, Jeffrey A.

PATENT ASSIGNEE(S): G.D. Searle and Co., USA SOURCE: PCT Int. Appl., 327 pp.

. CORPU PIUDO

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

						_									-		
WO	9941	237			A1		1999	0819		WO 1	1999-	US18	71		-	9990	211
	W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,
		ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,
		MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,
		ТJ,	TM														
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
AU	9932	854			Α		1999	0830		AU 1	L999-	3285	4		-	9990	211
US	6605	624			В1		2003	0812		US 2	2000-	6008	70		2	20001	211
US	2004	0038	939		A1		2004	0226		US 2	2003-	4039	03		2	20030	331
US	6794	396			В2		2004	0921									
US	2004	0220.	231		A1		2004	1104		US 2	2004-	8529	75		2	20040	525
PRIORIT	Y APP	LN.	INFO	.:						US 1	1998-	7458	6P		P 1	9980	213
										WO 1	L999-	US18	71	1	W 1	9990	211
										US 2	2000-	6008	70		A3 2	20001	211
										US 2	2003-	4039	03		A3 2	20030	331
OTHER SO	OURCE	(S):			MAR:	PAT	131:	15771	11								

Title compds. [I; R2,R6 = H, OH, (fluoro)alkyl, alkoxy, etc.; R3 = OH, CHO, alkoxycarbonyl, (hetero)arylcarbonyl, etc.; R5 = H, halo, alkyl, alkoxy, etc.; R5 = H, halo, alkyl, alkoxy(carbonyl), etc.] were prepared Thus, CF3C(NH2):C(CO2Me)COMe was refluxed with Ac2O/HC(OMe)3 and the product converted in 2 steps to I (R2 = CF3, R3 = CO2Me, R4 = OCHMe2, R5 = R6 = H). Data for biol. activity of I were given.

IT 237757-75-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyridinecarboxylates and analogs as cholesteryl ester transfer protein inhibitors)

RN 237757-75-4 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-[(benzoyloxy)methyl]-4-(cyclopropylmethyl)-2-(difluoromethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1993:124407 HCAPLUS Full-text

DOCUMENT NUMBER: 118:124407

ORIGINAL REFERENCE NO.: 118:21561a,21564a

TITLE: Preparation of haloalkylpyridinecarboxylates as

herbicides

INVENTOR(S): Auinbauh, Susan Moritz; Lee, Len Fang; Van Sant, Karey

Alan

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 157 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	PATENT NO.					D DATE		APF	LICATI	I NOI	10.			DATE
WO	9220	 659			A1	 19921	126	WO	1992-t	 JS414	10			19920515
	W:	ΑU,	CA,	JP										
	RW:	ΑT,	BE,	CH,	DE,	DK, ES,	FR, (GB, GF	R, IT,	LU,	MC,	NL,	SE	ו נ
US	5169	432			A	19921	208	US	1991-	70454	18			19910523
CA	2102	118			A1	19921	124	CA	1992-2	21021	18			19920515
AU	9221	568			Α	19921	230	AU	1992-2	21568	}			19920515
EP	5865	56			A1	19940	316	EP	1992-9	91293	3 4			19920515
EP	5865	56			В1	19970	416							
	R:	ΑT,	BE,	CH,	DE,	DK, ES,	FR, (GB, GF	R, IT,	LI,	LU,	MC,	NI	, SE
AT	1517	53			Τ	19970	515	AT	1992-9	91293	3 4			19920515
ES	2102	508			Т3	19970	801	ES	1992-9	91293	3 4			19920515
PRIORITY	Y APP	LN.	INFO	.:				US	1991-	70454	18	Ž	A	19910523
								WO	1992-0	JS414	10	i	A	19920515

OTHER SOURCE(S): MARPAT 118:124407

GΙ

Title compds. I [R2, R6 = bromoalkyl, chloroalkyl, fluoroalkyl, chlorofluoroalkyl, alkoxy, at least 1 of R2, R6 = fluoroalkyl; R4 = alkyl, cycloalkylalkyl, alkylthioalkyl, cycloalkyl, alkoxyalkyl, dialkylaminoalkyl; 1 of R3 and R5 = COY and the other = (CR9R10)nX, CX:CH2, CR9:CZX; X = halo, OH, N3, cyano, 4-morpholinyl, 1-pyrrolidinyl, etc.; Y = alkylthio, alkoxy, 1H-pyrazolyl; Z = H, alkyl, cyano; R9, R10 = H, alkyl, alkenyl, alkynyl; n = 1-3; X = OH when n = 1 and R9 and R10 = H] were prepared as herbicides. Thus, I [R2 = CF3, R3 = CO2Me, R4 = CH2CHMe2, R5 = CH2OH, R6 = CF2H] (II) was refluxed with SOC12 and pyridine to give title compound I (R5 = CH2Cl, all others as defined for II) (III). III at 11.21 kg/ha preemergent gave 75-100% control of common lambsquarters.

IT 146199-05-5P 146199-09-9P 146199-33-9P 146199-34-0P 146199-35-1P 146199-37-3P 146199-43-1P 146199-44-2P 146199-45-3P 146199-48-6P 146199-49-7P 146199-73-7P 146199-74-8P 146199-75-9P 146199-76-0P 146199-88-4P 146199-89-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 146199-05-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(difluoromethyl)-5-(methoxymethyl)-4-(2-methylpropyl)-2-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$F_3C$$
 N
 CHF_2
 $MeO-C$
 $i-Bu$
 CH_2-OMe

RN 146199-09-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(methoxymethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-33-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-2-(difluoromethyl)-5-(methoxymethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-34-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-2-(difluoromethyl)-5-[(2-propen-1-yloxy)methyl]-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2-\text{O-CH}_2-\text{CH}_2\text{CH}_2\\ \text{CF}_3\\ \text{MeO-C}\\ \text{CHF}_2 \end{array}$$

RN 146199-35-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-2-(difluoromethyl)-5-(1-methoxyethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} \overset{\circ}{\underset{\text{C-OMe}}{\bigcap}} \\ \overset{\circ}{\underset{\text{CH}_2}{\bigcap}} \\ \overset{\circ}{\underset{\text{CH}_2}{\bigcap}} \\ \overset{\circ}{\underset{\text{CH}_2}{\bigcap}} \\ \overset{\circ}{\underset{\text{CF}_3}{\bigcap}} \end{array}$$

RN 146199-37-3 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-2-(difluoromethyl)-5-(1-ethoxyethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-43-1 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-5-[1-(2-propyn-1-yloxy)ethyl]-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c}
F3C & N & CHF2 \\
Me-CH & i-Bu & C-OMe
\end{array}$$
HC \(C-OMe \)

RN 146199-44-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(1-methoxyethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c|c} F_3C & N & CHF_2 \\ Me-CH & C-OMe \\ OMe & Bu-i & OMe \end{array}$$

RN 146199-45-3 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-5-[1-(2-propen-1-yloxy)ethyl]-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{F_3C} \\ \text{Me-CH} \\ \text{CH-CH_2-0} \end{array}$$

RN 146199-48-6 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(ethoxymethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c|c} F3C & N & CHF2 \\ \hline EtO-CH2 & C-OMe \\ \hline \end{array}$$

RN 146199-49-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-5-[(2-propyn-1-yloxy)methyl]-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$F_3C$$
 N
 CHF_2
 $C-CH_2-O-CH_2$
 $i-Bu$
 $C-OMe$

RN 146199-73-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-[[(2-chloroacetyl)oxy]methyl]-4-(cyclopropylmethyl)-2-(difluoromethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-74-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-5-[[(2,2-dichloroacetyl)oxy]methyl]-2-(difluoromethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} CH_2-O-C-CHCl_2 \\ CH_2-O-C-CHCl_2 \\ CF_3 \\ CH_2-C-C-CHCl_2 \\ CF_3 \\ CH_{F_2} \end{array}$$

RN 146199-75-9 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-[(acetyloxy)methyl]-4-(cyclopropylmethyl)-2-(difluoromethyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-76-0 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4-(cyclopropylmethyl)-2-(difluoromethyl)-5-

[[(2,2,2-trifluoroacetyl)oxy]methyl]-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

RN 146199-88-4 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(difluoromethyl)-5-(2-methoxyethyl)-4-(2-methylpropyl)-2-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$F_3C$$
 N
 CHF_2
 CH_2-CH_2-OMe

RN 146199-89-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-(difluoromethyl)-5-(2-methoxyethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{F3C} \\ \text{MeO-CH}_2\text{-CH}_2 \\ \text{i-Bu} \end{array} \\ \begin{array}{c} \text{CHF}_2 \\ \text{C-OMe} \end{array}$$

L20 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1992:571234 HCAPLUS Full-text

DOCUMENT NUMBER: 117:171234

ORIGINAL REFERENCE NO.: 117:29601a,29604a

TITLE: Preparation of substituted pyridinecarboxylic acid

derivatives with herbicidal activity

INVENTOR(S): Korte, Donald E.; Lee, Len F.

PATENT ASSIGNEE(S): Monsanto Co., USA SOURCE: U.S., 53 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US	51259	956			А		1992	0630	1	US	1991-	6604	80			19910225
WO	92147	711			A1		1992	0903	1	WO	1992-	US13	42			19920220
	W:	AU,	CA,	JP												
	RW:	AT,	BE,	CH,	DE, I	DK,	ES,	FR,	GB,	GF	R, IT,	LU,	MC,	NL,	SI	Ξ
AU	92146	513			A		1992	0915		AU	1992-	1461	3			19920220
AU	65011	L6			В2		1994	0609								
EP	5735	75			A1		1993	1215		ΕP	1992-	9078	15			19920220
	R:	ΑT,	BE,	CH,	DE, I	DK,	ES,	FR,	GB,	GF	R, IT,	LI,	LU,	MC,	NI	L, SE
JP	06505	5022			T		1994	0609		JΡ	1992-	5073	37			19920220
US	52288	397			Α		1993	0720	1	US	1992-	8715	25			19920420
US	53915	540			A		1995	0221	1	US	1993-	4515	4			19930412
US	55125	536			Α		1996	0430	1	US	1994-	3399	94			19941115
US	56438	354			Α		1997	0701	1	US	1995-	4675	10			19950606
US	58246	525			A		1998	1020	1	US	1995-	4719	18			19950606
US	58438	367			A		1998	1201	1	US	1995-	4676	81			19950606
US	58771	L19			A		1999	0302	1	US	1995-	4717	84			19950606
PRIORIT	Y APPI	N. :	INFO	.:					1	US	1991-	6604	80		Α	19910225
									1	WO	1992-	US13	42		Α	19920220
									1	US	1992-	8715	25		АЗ	19920420
									1	US	1993-	4515	4		АЗ	19930412
									1	US	1994-	3399	94		АЗ	19941115
OTHER SO	MIRCE.	(S) •			MARPA	ΣТ	117.	17123	R 4							

OTHER SOURCE(S): MARPAT 117:171234

GΙ

Pyridinecarboxylic acid derivs. I (R = C1-C6 straight or branched alkyl, C1-C7 haloalkyl, C2-C8 carboxyalkyl, etc., R1 = fluorinated Me, chlorofluorinated Me, fluorinated Et, R2 = H, C1-C7 alkyl, C13C, C2-C8 cyanoalkyl, C3-C7 alkenyl, C3-C7 alkenyl, X, Y = C(Z):Z1, Z = H, halogen, OH, C1-C7 alkoxy, C1-C7 haloalkoxy, NR4R5, 1,3-dithiolan-2-yl, 1,3-dioxolan-2-yl, 3,3-dioxo-1,3-oxathiolan-2-yl, Z1 = O, NR3, R3 = lower alkyl, R4, R5 = H, lower alkyl, NHAc, C1-C7 hydroxyalkyl) were prepared and tested for pre- and post-emergent herbicidal activity on plants. Thus, 0.77 mol I (R = CH2CHMe2, R1 = CF3, R2 = H, X = CO2Me, Y = CO2H) reacted with MeOH/H2SO4 under reflux to give I (Y = CO2Me) in 50% yield. I (R = CH2CHMe2, R1 = CF3, R2 = Me, X = Y = CO2H) showed 75-100% inhibition against yellow nutsedge.

IT 143420-00-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and herbicidal activity of)

RN 143420-00-2 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-methoxy-4-(methoxymethyl)-6-(trifluoromethyl)-, 3,5-dimethyl ester (CA INDEX NAME)

L20 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1992:128972 HCAPLUS Full-text

DOCUMENT NUMBER: 116:128972

ORIGINAL REFERENCE NO.: 116:21843a,21846a

TITLE: Preparation of azinylphthalides and related compounds

as herbicides

INVENTOR(S): Anderson, Richard James; Cloudsdale, Ian Stuart;

Hokama, Takeo

PATENT ASSIGNEE(S): Sandoz A.-G., Switz.; Sandoz-Patent-G.m.b.H.;

Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: Eur. Pat. Appl., 65 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.	DATE
	A2	19911211	EP 1991-810428	19910605
EP 461079	А3	19920304		
EP 461079	B1	19970716		
R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IT, LI, LU, NL	, SE
HU 61153	A2	19921228	HU 1991-1771	19910527
HU 212435				
AU 9178204	A	19911212	AU 1991-78204	19910605
AU 649448	B2	19940526		
RU 2040522	C1	19950725	RU 1991-4895617	
IL 98378	A	19951127		
AT 155466	T	19970815	AT 1991-810428	
ES 2107447		19971201	ES 1991-810428	
CA 2043976		19911208	CA 1991-2043976	19910606
CA 2043976	С	20060404		
CN 1057837	A	19920115	CN 1991-104849	19910606
CN 1033735	С	19970108		
JP 04235967	А	19920825	JP 1991-163978	
PL 170729	B1	19970131	PL 1991-290573	
SK 278746		19980204		
BR 9102386	A	19920114		19910607
ZA 9104382	A	19930224	ZA 1991-4382	
US 5506192	A	19960409		
US 5561101	A	19961001		
US 5627137	A		US 1995-457907	
US 5627138	A	19970506	US 1995-457909	
PRIORITY APPLN. INFO.:				A 19900607
			US 1990-633592	A 19901221
			US 1991-804150	B2 19911206
			US 1993-36006	B1 19930323
			US 1994-201150	A1 19940223

OTHER SOURCE(S): MARPAT 116:128972

For diagram(s), see printed CA Issue. GΙ

AΒ Title compds. I [ring A = Ph, naphthyl, (benzo)pyridyl (oxide), pyrazinyl oxide, pyrimidinyl, pyrazinyl, cinnolinyl, quinoxalinyl, (benzo-fused) 5membered heteroaryl; R = cyano, CHO, CX1X2X3, ketone-forming group, (modified) (thio)carboxyl, carbamoyl, hydroxyalkyl, CH2O2C bridged to an adjacent A-ring carbon, etc.; Y1-Y3 = H, halo, OH, (substituted) alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkylsulfonyloxy, etc.; Y1Y2 = 3-5-membered bridge; Y1R = C(S)O, other bridging group; X, Y = H, OH, halo, cyano, (substituted) alkyl, alkoxy, alkoxycarbonyl, hydroxyalkyl, haloalkyl, acyl, acyloxy, carbamoyl, carbamoyloxy, alkylthio, aryloxy, aryl, etc.; XR = CO2, C(O)S, CONH, etc.; X1, X2, X3 = H, OH, alkoxy, alkylthio, hydroxyalkyl, hydroxybenzyl; X1X2 = 4-5 membered bridge; R1, R3 = H, halo, (substituted) alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, cycloalkyl, heterocyclylalkoxy, aryloxy, etc.; W1-W4 = CH, N, NR3] were prepared as herbicides (no data). Thus, 7-chlorophthalide in THF at -70° was treated with LiN(CHMe2)2 and then 2-methylsulfonyl-4,6-dimethoxypyrimidine followed by 4 h stirring to give title compound II.

ΙT 139511-44-7P

> RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 139511-44-7 HCAPLUS

3-Pyridinecarboxylic acid, 2-[(acetyloxy)methyl]-4-[bromo(4,6-dimethoxy-2-CN pyrimidinyl)methyl]-, ethyl ester (CA INDEX NAME)

L20 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN 1991:449339 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 115:49339

ORIGINAL REFERENCE NO.: 115:8557a,8560a

Synthesis of unsubstituted and 4,4'-substituted TITLE:

oligobipyridines as ligand strands for helicate

self-assembly

AUTHOR(S): Harding, Margaret M.; Koert, Ulrich; Lehn, Jean Marie;

Marquis-Rigault, Annie; Piquet, Claude; Siegel, Jay

CORPORATE SOURCE: Inst. Le Bel, Univ. Louis Pasteur, Strasbourg,

F-67000, Fr.

SOURCE: Helvetica Chimica Acta (1991), 74(3), 594-610

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:49339

GΙ

AB Oligobipyridines I (R, R1 = H, CO2CMe3, CONEt2, X = CH2OCH2, n = 0, 2; R, R1 = H, CO2CMe3, CONEt2, CH2CH2CO2CMe3, X = CH2OCH2, n = 1, 3) were prepared by Williamson alkoxylation of bromomethyl or bis(bromomethyl)bipyridine derivative with a hydroxymethylbipyridine derivative Thus, 6-(hydroxymethyl)-6'- methyl-2,2'-bipyridine upon treatment with 6,6'-bis(bromomethyl)-2,2'-bipyridine afforded 80% oligopyridine I (R = R1 = H, n = 1).

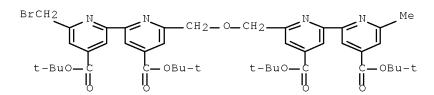
IT 134842-41-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and Williamson alkoxylation of, with (hydroxymethyl) bipyridine derivative)

RN 134842-41-4 HCAPLUS

CN [2,2'-Bipyridine]-4,4'-dicarboxylic acid, 6-[[[6'-(bromomethyl)-4,4'-bis[(1,1-dimethylethoxy)carbonyl][2,2'-bipyridin]-6-yl]methoxy]methyl]-6'-methyl-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



L20 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:478097 HCAPLUS Full-text

DOCUMENT NUMBER: 113:78097

ORIGINAL REFERENCE NO.: 113:13210h,13211a

TITLE: Derivation of fluorine-containing

pyridinedicarboxylates. III. Regioselective anion

chemistry at the 2- and 4-position Chupp, John P.; Molyneaux, John M.

AUTHOR(S): Chupp, John P.; Molyneaux, John M. CORPORATE SOURCE: Tech. Div., Monsanto Agric. Co., St. Louis, MO, 63167,

USA

SOURCE: Journal of Heterocyclic Chemistry (1989), 26(6),

1771-80

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:78097

AB 4-Alkyl-2-(difluoromethyl)-6-(trifluoromethyl)-3,5-pyridinedicarboxylates were deprotonated by various bases at either the benzylic carbanion of the 4-position, or at the 2-F2CH group to effect regionselective reaction of electrophiles. Weaker bases up to and including KOCMe3 or NaN(SiMe3)2 effected reaction at the 4-position in a Stobbe-type condensation with

aldehydes and ketones. In similar manner CS2, CO2, alkyl halides, silyl halides, and C2C16 produced highly functionalized derivs. In contrast, use of LiN(CHMe2)2 and like bases selectively effected carbanion formation at the 2-position followed by reaction with the cited electrophiles.

IT 128608-35-5P

RN 128608-35-5 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethoxymethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

L20 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:198085 HCAPLUS Full-text

DOCUMENT NUMBER: 112:198085

ORIGINAL REFERENCE NO.: 112:33481a,33484a

TITLE: A novel dehydrofluorination of 2-

(trifluoromethyl)dihydro-3,5-pyridinedicarboxylates to

2-(difluoromethyl)-3,5-pyridinedicarboxylates

AUTHOR(S): Lee, Len F.; Stikes, Gina L.; Molyneaux, John M.;

Sing, Y. Larry; Chupp, John P.; Woodard, Scott S.

CORPORATE SOURCE: Technol. Div., Monsanto Agric. Co., St. Louis, MO,

63167, USA

SOURCE: Journal of Organic Chemistry (1990), 55(9), 2872-7

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:198085

GΙ

$$R^{10}2^{C}$$
 R^{2}
 $R^{10}2^{C}$
 R^{2}
 $R^{10}2^{C}$
 R^{2}
 $R^$

AB 2-(Trifluoromethyl)-1,4- and -3,4-dihydro-3,5-pyridinedicarboxylates I and II (R = CF3, Me, Et; R1 = Me, Et; R2 = Me, Et, Pr, Bu, Ph, CF3, pyridyl, CH2SMe, etc.) undergo an unprecedented dehydrofluorination upon treatment with DBU,

NBu3, NEt3, EtN(CHMe2)2, or 2,6-lutidine to give the corresponding 2-(difluoromethyl)-3,5-pyridinedicarboxylates III.

IT 97887-82-6P 97887-87-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 97887-82-6 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-

[(phenylmethoxy)methyl]-6-(trifluoromethyl)-, diethyl ester (9CI) (CA

INDEX NAME)

RN 97887-87-1 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, diethyl ester (9CI) (CA INDEX NAME)

L20 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:76991 HCAPLUS Full-text

DOCUMENT NUMBER: 112:76991

ORIGINAL REFERENCE NO.: 112:13159a,13162a

TITLE: Derivation of fluorine-containing

pyridinedicarboxylates. II. Elaboration at the

4-position

AUTHOR(S): Chupp, John P.; Molyneaux, John M.

CORPORATE SOURCE: Tech. Div., Monsanto Agric. Co., St. Louis, MO, 63167,

USA

SOURCE: Journal of Heterocyclic Chemistry (1989), 26(3),

645-53

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:76991

GΙ

AB In response to the bioactivity found in F-containing 4-alkyl-3,5-pyridinedicarboxylates, a series of novel 4-substituted derivs., not directly available by Hantzsch sequences, were prepared Starting 4-alkylpyridines I (R = Me, Et; R1 = Et, Pr) were converted via enamines to a variety of products, as was aldehyde I (R = Me, R1 = CH2CHO). Acid derivs. were prepared from I (R = Me, R1 = CH2CO2H). Addition of O, S, and carbenoids effected conversion of 4-allylpyridine I (R = Me, R1 = allyl) to epoxy and cyclopropyl derivs. A number of neighboring-group effects were noted, including those forming the fused-ring systems. The crystal structure of naphthyridine II was also determined

IT 124945-89-7P

RN 124945-89-7 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(ethoxymethyl)-6-(trifluoromethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F_2CH & N & CF_3 \\ MeO-C & C & C-OMe \\ CH_2-OEt \end{array}$$

L20 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1989:71000 HCAPLUS Full-text

DOCUMENT NUMBER: 110:71000

ORIGINAL REFERENCE NO.: 110:11623a,11626a

TITLE: Herbicidal pyridine compounds

AUTHOR(S): Anon. CORPORATE SOURCE: UK

SOURCE: Research Disclosure (1988), 295, 867-73 (No. 29529)

CODEN: RSDSBB; ISSN: 0374-4353

DOCUMENT TYPE: Journal; Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 295029		19881110	RD 1988-295029	19881110
PRIORITY APPLN. INFO.:			RD 1988-295029	19881110

Ninety-six pyridine herbicides (10 lb/acre) were evaluated for their post-AB emergence herbicidal activity against 10 weeds, e.g., large crabgrass, morning glory and wild buckwheat, and the results were tabulated.

ΙT

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(herbicidal activity of, postemergence)

97886-72-1 HCAPLUS RN

3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-CN (trifluoromethyl) -, dimethyl ester (9CI) (CA INDEX NAME)

L20 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1986:497334 HCAPLUS Full-text

DOCUMENT NUMBER: 105:97334

ORIGINAL REFERENCE NO.: 105:15729a,15732a

TITLE: Substituted 4,6-alkoxypyridinecarboxylate compounds

INVENTOR(S): Lee, Len Fang Monsanto Co. , USA PATENT ASSIGNEE(S): SOURCE: Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

Р	PATENT NO.					KIND		DATE		APPLICATION NO.				DATE	
E	:===== :P 18131	.1			A2	_	1986	0514	EP	1985	 -8701	50		1985110	- 5
E	P 18131	.1			А3		1988	0713							
E	P 18131	. 1			В1		1990	0829							
	R:	ΑT,	BE,	CH,	DE,	FR,	GB,	IT,	LI, L	U, NL	, SE				
U	IS 46093	199			Α		1986	0902	US	1984	-6687	90		1984110	6
А	U 85493	36			Α		1986	0529	AU	1985	-4933	6		1985110	4
А	U 57485	7			В2		1988	0714							
J	P 61115	070			Α		1986	0602	JP	1985	-2478	67		1985110	5
J	P 06057	697			В		1994	0803							
Z	A 85085	01			Α		1986	0827	ZA	1985	-8501			1985110	5
С	:A 12301	.22			A1		1987	1208	CA	1985	-4946	05		1985110	5
А	T 55990)			Τ		1990	0915	AT	1985	-8701	50		1985110	5
U	S 47417	66			Α		1988	0503	US	1986	-8694	90		19860602	2
PRIORITY APPLN. INFO.:								US	1984	-6687	90	A	1984110	6	
									EP	1985	-8701	50	А	1985110	5
OTHER SOURCE(S).				CASREACT 105.97334: MARPAT 105.97334											

OTHER SOURCE(S): CASREACT 105:97334; MARPAT 105:97334

GΙ

$$\begin{array}{c}
 \text{OR}^2 \\
 \text{CO}_2 R \\
 \text{R}^2 \text{O} \\
 \end{array}$$

AB Pyridinecarboxylates I [R = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl; R1 = fluorinated or chlorofluorinated Me; R2 = H, alkyl; X = H, CO2R3, CONR4R5, cyano, alkyl, haloalkyl, alkoxyalkoxyalkyl, cyanoalkyl, carbalkoxyalkyl; R3 = H, alkyl, alkenyl, alkynyl, haloalkyl; R4, R5 = H, alkyl] are prepared as herbicides or intermediates thereof. Thus, cyclocondensation of EtO2CC.tplbond.CCO2Et with CF3CN in the presence of KOCMe3 gave 95% I (R = Et, R1 = CF3, R2 = X = H), which was methylated by K2CO3-MeI to give 64.5% I (R = Et, R1 = CF3, R2 = Me, X = H). This compound was lithiated by (Me2CH)2NLi at -78°, followed by carboxylation with Dry Ice, to give 95% I (R = Et, R1 = CF3, R2 = Me, X = CO2H), which was esterified by SOC12-MeOH to give 42% I (R = Et, R1 = CF3, R2 = Me, X = CO2Me) (II). At 1.12 kg/ha (preemergent), II gave 75-100% control of several weeds, e.g. barnyard grass, with 0-24% inhibition of wheat and rice.

103901-01-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 103901-01-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 4,6-dimethoxy-5-[(2-methoxyethoxy)methyl]-2-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{MeO-CH}_2\text{--CH}_2\text{--}\text{O-CH}_2 \\ \text{MeO-CH}_2\text{--CH}_2\text{--}\text{O-CH}_2 \\ \end{array}$$

L20 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1986:19514 HCAPLUS Full-text

DOCUMENT NUMBER: 104:19514

ORIGINAL REFERENCE NO.: 104:3281a,3284a

TITLE: Substituted 2,6-substituted pyridine compounds

INVENTOR(S): Lee, Len Fang
PATENT ASSIGNEE(S): Monsanto Co. , USA

SOURCE: Eur. Pat. Appl., 238 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 133612	A2	19850227	EP 1984-870119	19840810

EP 133612		А3	19870429				
EP 133612 EP 133612		B1	19910227				
	OF CU		FR, IT, LI,	TII NIT	CE		
US 4692184	DE, CII,	ДЕ , А	19870908		1984-602021		19840424
DK 8403858		A	19850212		1984-3858		19840810
DK 162887		В	19911223	DIC	1901 3030		19010010
DK 162887		C	19920706				
FI 8403169		A	19850212	ТЯ	1984-3169		19840810
FI 87201		В	19920831		1901 3109		19010010
FI 87201		Ĉ	19921210				
NO 8403205		A	19850212	NO	1984-3205		19840810
NO 168801		В	19911230				
NO 168801		С	19920408				
AU 8431777		Ā	19850214	AU	1984-31777		19840810
AU 564070		В2	19870730				
GB 2145713		Α	19850403	GB	1984-20324		19840810
GB 2145713		В	19870903				
JP 60078965		Α	19850504	JP	1984-166677		19840810
JP 04047667		В	19920804				
DD 222767		A5	19850529	DD	1984-266171		19840810
BR 8404011		Α	19850716	BR	1984-4011		19840810
ZA 8406249		Α	19850731	ZA	1984-6249		19840810
HU 37122		A2	19851128	HU	1984-3064		19840810
HU 196374		В	19881128				
RO 89518		В3	19860630	RO	1984-115468		19840810
IN 158230		A1	19860927		1984-MA600		19840810
PL 142321		В1	19871031		1984-249146		19840810
IL 72638		Α	19871130		1984-72638		19840810
RO 94161		В3	19880330		1984-122488		19840810
CA 1272199		A1	19900731		1984-460734		19840810
AT 61048		T	19910315		1984-870119		19840810
US 4826530		А	19890502		1987-62012		19870615
US 4978384		A	19901218		1989-345812		19890501
US 5142055		A	19920825		1990-592711		19901004
NO 9100054		A	19850212	NO	1991-54		19910107
NO 172936		В	19930621				
NO 172936		С	19930929	170	1001 55		10010100
NO 9100055		A B	19850212 19930621	NO	1991-55		19910107
NO 172937							
NO 172937 NO 9100056		C A	19930929 19850212	NO	1991-56		19910107
NO 172642		В	19930510	110	1991-30		19910107
NO 172642 NO 172642		С	19930310				
NO 172842 NO 9100057		A	19850212	NO	1991-57		19910107
NO 172641		В	19930510	110	1991-37		19910107
NO 172641 NO 172641		С	19930818				
PRIORITY APPLN. IN	IFO •		19930010	IIS	1983-522430	А	19830811
	• • •				1984-602021	A	19840424
					1984-870119	A	19840810
					1984-3205		19840810
					1987-62012		19870615
					1989-344929		19890428
OTHER SOURCE(S):		CASF	REACT 104:195		ARPAT 104:19514		
GI							

AB Herbicidal pyridinecarboxylates and derivs., I [R = (un)substituted alkyl, alkenyl, alkynyl, heterocyclic, cycloalkyl; R1, R2 = C(X)X1R5, COR6, CONR7R8, CH2OH, cyano; R3, R4 = Me, fluorinated Me, chlorofluorinated Me; one of R3 and R4 must contain F; R5 = H, (un)substituted alkyl; R6 = H, halo; R7, R8 = H, Ph, alkyl; X = O, imino; X1 = O, S] (>350 products and intermediates) were prepared Thus, dihydroxypiperidinedicarboxylate II was dehydrated, and the resulting dihydropyridinedicarboxylate was defluorinated and aromatized using DBU, to give pyridinedicarboxylate III (R9 = Et). III (R9 = Et) underwent partial saponification to III (R9 = H), which was treated sequentially with SOC12 and MeOH to give III (R9 = Me) (IV). At 0.14 kg/ha pre-emergent, IV gave complete control of barnyard grass (Echinochloa crus-galli), whereas cotton was unaffected.

IT 97886-79-8P 97887-73-5P 97887-82-6P 97897-84-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and herbicidal activity of)

RN 97886-79-8 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, 3-ethyl 5-methyl ester (CA INDEX NAME)

$$\begin{array}{c|c} F_3C & N & CHF_2 \\ MeO-C & C & C-OEt \\ CH_2-OMe \end{array}$$

RN 97887-73-5 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 4-(methoxymethyl)-2,6-bis(trifluoromethyl)-, diethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} F3C & N & CF3 \\ \hline EtO-C & C-OEt \\ \hline CH2-OMe \end{array}$$

RN 97887-82-6 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4[(phenylmethoxy)methyl]-6-(trifluoromethyl)-, diethyl ester (9CI) (CA INDEX NAME)

RN 97897-84-2 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(1-methoxyethyl)-6-(trifluoromethyl)-, 5-ethyl 3-methyl ester (CA INDEX NAME)

IT 97886-76-5P 97887-98-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, alkylation, and herbicidal activity of)

RN 97886-76-5 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, 5-methyl ester (CA INDEX NAME)

$$\begin{array}{c|c} F_2CH & N & CF_3 \\ HO_2C & CH_2 & C & OMe \end{array}$$

RN 97887-98-4 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, 5-ethyl ester (CA INDEX NAME)

IT 97886-70-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation, bromination and alkoxylation, and herbicidal activity of)

RN 97886-70-9 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, 5-ethyl 3-methyl ester (CA INDEX NAME)

IT 97886-72-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, saponification, and herbicidal activity of)

RN 97886-72-1 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6- (trifluoromethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

IT 97887-87-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation, saponification, bromination and alkoxylation, and herbicidal activity

of)

RN 97887-87-1 HCAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-(difluoromethyl)-4-(methoxymethyl)-6-(trifluoromethyl)-, diethyl ester (9CI) (CA INDEX NAME)

L20 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1973:92575 HCAPLUS Full-text

DOCUMENT NUMBER: 78:92575

ORIGINAL REFERENCE NO.: 78:14767a,14770a

TITLE: Antimalarials. 4. 4-Pyridinemethanols with styryl

and benzoyl substituents

AUTHOR(S): LaMontagne, M. P.

CORPORATE SOURCE: Ash Stevens Inc., Detroit, MI, USA

SOURCE: Journal of Medicinal Chemistry (1973), 16(1), 68-72

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

AB The most potent antimalarial of 7 styryl-substituted 4-pyridinemethanols prepared was $\alpha-[(\text{di-n-butylamino})\,\text{methyl}]-2-(4-\text{chlorostyryl})-6-(\text{trifluoromethyl})-4-pyridinemethanol-HCl (I) [38897-97-1], which was curative against Plasmodium berghei in mice at 20 mg/kg. I was synthesized from Et 6-(trifluoromethyl)-2-picoline-4-carboxylate [38897-98-2] by oxidation to the 2-pyridylcarbinol acetate with CF3CO3H and Ac2O, hydrolysis with NaOEt, oxidation to the aldehyde with SeO2, reaction with 4-chlorphenyltriphenylphosphonium methylide [38897-99-3] to introduce the styryl group, hydrolysis of the Et ester to the isonicotinic acid, and introduction of the side chain by the method of R. E. Lutz, et al. (1946).$

IT 39965-93-0P

RN 39965-93-0 HCAPLUS

CN 4-Pyridinecarboxylic acid, 2-[(acetyloxy)methyl]-6-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

=> => d stat que 141 L13 STR

VAR G2=1/2/3/4/6 NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L15 78538 SEA FILE=REGISTRY SSS FUL L13

L16 STR



VAR G2=1/2/3/4/6 NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L17 3306 SEA FILE=REGISTRY SUB=L15 SSS FUL L16

L18 STR

VAR G2=1/2/3/4/6 VAR G3=14/19/22/28/31 REP G4=(0-2) CH2 NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

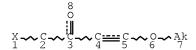
RSPEC I

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L19 49 SEA FILE=REGISTRY SUB=L17 SSS FUL L18 L20 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L19

L23 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

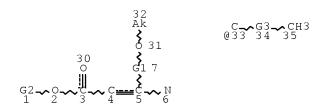
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L25 488 SEA FILE=REGISTRY SSS FUL L23

L32 STR



REP G1 = (1-3) C

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/33

REP G3 = (3-4) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L34	2316	SEA	FILE=REGISTRY SSS FU	L L32	
L35	462	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L25
L36	1159	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L34
L37	5	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L35 AND L36
L38	4	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L37 NOT L20
L39	78489	SEA	FILE=REGISTRY ABB=ON	PLU=ON	L15 NOT L19

L40 21957 SEA FILE=HCAPLUS ABB=ON PLU=ON L39

L41 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L38 AND L40

=> d ibib abs hitstr 141 1-2

L41 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:189352 HCAPLUS Full-text

DOCUMENT NUMBER: 146:228673

TITLE: Product subclass 17: 1,1-Bis(nitrogen-functionalized)

alk-1-enes: alk-1-ene-1,1-diamines

AUTHOR(S): Kantlehner, W.

CORPORATE SOURCE: Germany

SOURCE: Science of Synthesis (2006), Volume Date 2005, 24,

571-705

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review of methods to prepare alk-1-ene-1,1-diamines.

IT 40657-29-2 154227-73-3 924905-33-9

RL: RCT (Reactant); RACT (Reactant or reagent) (review of preparation of alkenediamines)

RN 40657-29-2 HCAPLUS

CN 3-Buten-2-one, 4,4-diethoxy-1,1,1-trifluoro- (CA INDEX NAME)

RN 154227-73-3 HCAPLUS

CN 2-Pentenedioic acid, 3-amino-2-cyano-4-[(methylthio)(phenylamino)methylene]-, 1,5-diethyl ester, <math>(2Z,4E)-(CA INDEX NAME)

Double bond geometry as shown.

RN 924905-33-9 HCAPLUS

CN 1H-Benzimidazole-2-acetonitrile, 1-methyl- α -[5-(trifluoromethyl)-2-pyridinyl]- (CA INDEX NAME)

144291-81-6P ΤT

> RL: SPN (Synthetic preparation); PREP (Preparation) (review of preparation of alkenediamines)

144291-81-6 HCAPLUS RN

CN 2-Pyridineacetonitrile, α -(1-ethyl-1,3-dihydro-3-methyl-2Hbenzimidazol-2-ylidene)-5-(trifluoromethyl)- (CA INDEX NAME)

REFERENCE COUNT: 481 THERE ARE 481 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L41 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:406839 HCAPLUS Full-text

Correction of: 2005:155216

DOCUMENT NUMBER: 143:248209

Correction of: 142:197768

TITLE: Product class 1: pyridines

AUTHOR(S): Spitzner, D. Germany

CORPORATE SOURCE:

Science of Synthesis (2005), 15, 11-284 SOURCE:

CODEN: SSCYJ9

Georg Thieme Verlag PUBLISHER: DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review of methods to prepare pyridines, pyridine-1-oxides, and pyridinium salts. Methods include cyclization, ring transformations, aromatization and substituent modification.

59938-06-6 163459-12-9 244139-22-8 ΙT

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridines, pyridine-1-oxides and pyridinium salts via

cyclization, ring transformations, aromatization and substituent

modification)

RN 59938-06-6 HCAPLUS

CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)- (CA INDEX NAME)

Double bond geometry as shown.

RN 163459-12-9 HCAPLUS

CN Pyridine, 2-chloro-5,6-bis(chloromethyl)-3-methyl- (CA INDEX NAME)

RN 244139-22-8 HCAPLUS

CN 2-Butenoic acid, 3-amino-4,4-diethoxy-, methyl ester (CA INDEX NAME)

IT 53750-66-6P 84006-10-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyridines, pyridine-1-oxides and pyridinium salts via cyclization, ring transformations, aromatization and substituent modification)

RN 53750-66-6 HCAPLUS

CN 2-Pyridinecarbonyl chloride, 4-chloro- (CA INDEX NAME)

$$\bigcup_{C_1}^{N} \bigcup_{C_1}^{O} C_1$$

RN 84006-10-0 HCAPLUS

CN Pyridine, 2-(chloromethyl)-4-methoxy-3,5-dimethyl- (CA INDEX NAME)

IT 3796-24-5P 54415-35-9P 54415-39-3P

122947-80-2P 137520-78-6P 137520-94-6P

166451-04-3P 178960-67-3P 216431-85-5P

267402-59-5P 725203-50-9P 743375-99-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of pyridines, pyridine-1-oxides and pyridinium salts via cyclization, ring transformations, aromatization and substituent modification)

RN 3796-24-5 HCAPLUS

CN Pyridine, 4-(trifluoromethyl)- (CA INDEX NAME)



RN 54415-35-9 HCAPLUS

CN 4-Pyridinamine, N, N-diethyl-3, 6-dimethyl-2-(trifluoromethyl)- (CA INDEX NAME)

RN 54415-39-3 HCAPLUS

CN 4-Pyridinamine, N,N,2-trimethyl-6-(trifluoromethyl)- (CA INDEX NAME)

RN 122947-80-2 HCAPLUS

CN Pyridine, 4-(dichloromethyl)-3-nitro- (CA INDEX NAME)

RN 137520-78-6 HCAPLUS

CN Pyridine, 3-(bromomethyl)-2,6-dichloro-5-methyl- (CA INDEX NAME)

RN 137520-94-6 HCAPLUS

CN Pyridine, 4-(bromomethyl)-2,6-dichloro-3-methyl- (CA INDEX NAME)

RN 166451-04-3 HCAPLUS

CN 3-Pyridinecarbonitrile, 2-(1-pyrrolidinyl)-6-(trifluoromethyl)- (CA INDEX NAME)

$$\text{F3C} \underbrace{\qquad \qquad \qquad }_{\text{CN}} \text{N}$$

RN 178960-67-3 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(1,1-dimethylethyl)-2-methyl-4-(trifluoromethyl)-, methyl ester (CA INDEX NAME)

$$\begin{array}{c}
\text{MeO} \\
\text{F}_{3}\text{C}
\end{array}$$

RN 216431-85-5 HCAPLUS

CN 3-Pyridinecarbonitrile, 6-(trifluoromethyl)- (CA INDEX NAME)

RN 267402-59-5 HCAPLUS

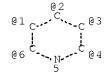
CN Pyridine, 2-butyl-4-phenyl-3-propyl-6-(trifluoromethyl)- (CA INDEX NAME)

RN 725203-50-9 HCAPLUS

CN 3-Pyridinol, 2-(chloromethyl)-5-methyl- (CA INDEX NAME)

RN 743375-99-7 HCAPLUS CN 3-Pyridinol, 2-(chloromethyl)- (CA INDEX NAME)

=> => d stat que 142 L13 STR



G2~C~X 12 13 14

VAR G2=1/2/3/4/6
NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L15 78538 SEA FILE=REGISTRY SSS FUL L13

L16 STR



VAR G2=1/2/3/4/6 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L17 3306 SEA FILE=REGISTRY SUB=L15 SSS FUL L16

L18 STR

VAR G2=1/2/3/4/6

VAR G3=14/19/22/28/31

REP G4=(0-2) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L19 49 SEA FILE=REGISTRY SUB=L17 SSS FUL L18 L20 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L19

L23 STR

x₁ → 2 → 2 === 2 → 2 → A₇

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

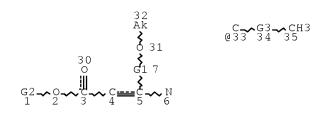
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L25 488 SEA FILE=REGISTRY SSS FUL L23

L32 STR



REP G1 = (1-3) C

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/33

REP G3 = (3-4) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L34	2316	SEA	FILE=REGISTRY SSS FU	L L32	
L35	462	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L25
L36	1159	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L34
L37	5	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L35 AND L36
L38	4	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L37 NOT L20
L39	78489	SEA	FILE=REGISTRY ABB=ON	PLU=ON	L15 NOT L19
L40	21957	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L39
L41	2	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L38 AND L40
L42	2	SEA	FILE=HCAPLUS ABB=ON	PLU=ON	L38 NOT L41

\Rightarrow d ibib abs hitstr 142 1-2

L42 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:205964 HCAPLUS Full-text

DOCUMENT NUMBER: 142:74474

TITLE: Product class 12: pyrimidines

AUTHOR(S): von Angerer, S.

CORPORATE SOURCE: Germany

SOURCE: Science of Synthesis (2004), 16, 379-572

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Methods for preparing pyrimidines are reviewed including

cyclization, ring transformation, aromatization and substituent modification.

IT 571-55-1 89779-30-6 116952-62-6

145909-72-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrimidines via cyclization, ring transformation,

aromatization and substituent modification)

RN 571-55-1 HCAPLUS

CN Butanoic acid, 2-(ethoxymethylene)-4,4,4-trifluoro-3-oxo-, ethyl ester (CA INDEX NAME)

89779-30-6 HCAPLUS RN

CN 2-Pentenedioic acid, 3-amino-2-cyano-, diethyl ester, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

116952-62-6 HCAPLUS

CN 3-Buten-2-one, 1,1,1-trichloro-4-ethoxy-, (3Z)- (CA INDEX NAME)

Double bond geometry as shown.

RN 145909-72-4 HCAPLUS

CN 2-Pentenedioic acid, 3-amino-2-cyano-, diethyl ester, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

REFERENCE COUNT: 856 THERE ARE 856 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L42 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN 2002:855864 HCAPLUS Full-text

ACCESSION NUMBER:

DOCUMENT NUMBER: 139:214344

TITLE: Product class 1: pyrazoles AUTHOR(S): Stanovnik, B.; Svete, J.

CORPORATE SOURCE: Faculty of Chemistry and Chemical Technology, Division

of Organic Chemistry, Ljubljana, 61000, Slovenia

Science of Synthesis (2002), 12, 15-225 SOURCE:

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review. Methods for preparing pyrazoles are reviewed including cyclization, AΒ ring transformation, aromatization and substituent modifications.

571-55-1 83124-74-7 83124-77-0 83124-84-9 156519-20-9 208999-74-0 208999-81-9 246164-19-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrazoles via cyclization, ring transformation,

aromatization and substituent modifications)

571-55-1 HCAPLUS RN

Butanoic acid, 2-(ethoxymethylene)-4,4,4-trifluoro-3-oxo-, ethyl ester (CA INDEX NAME)

RN 83124-74-7 HCAPLUS

CN 3-Buten-2-one, 1,1,1-trichloro-4-ethoxy- (CA INDEX NAME)

83124-77-0 HCAPLUS RN

3-Penten-2-one, 1,1,1-trichloro-4-methoxy- (CA INDEX NAME) CN

83124-84-9 HCAPLUS RN

3-Buten-2-one, 1,1,1-trichloro-4-ethoxy-3-methyl- (CA INDEX NAME) CN

156519-20-9 HCAPLUS RN

3-Buten-2-one, 1,1,1-trichloro-4-methoxy-4-phenyl- (CA INDEX NAME) CN

RN 208999-74-0 HCAPLUS

CN 2-Butenedioic acid, 2-amino-3-(2,5-anhydro-3,4,6-tri-O-benzoyl-D-allonoyl)-, 4-ethyl 1-methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 208999-81-9 HCAPLUS

CN 2-Butenedioic acid, 2-amino-3-(2,5-anhydro-3,4,6-tri-O-benzoyl-D-allonoyl)-, 4-(1,1-dimethylethyl) 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 246164-19-2 HCAPLUS

CN 2-Butenedioic acid, 2-amino-3-(2,5-anhydro-3,4,6-tri-O-benzoyl-D-allonoyl)-, 4-ethyl 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

REFERENCE COUNT:

909 THERE ARE 909 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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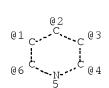
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L16 STR





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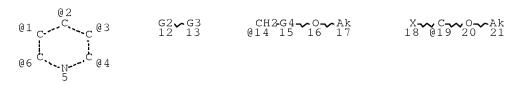
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L18 STR



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GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

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L23 STR

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DEFAULT ECLEVEL IS LIMITED

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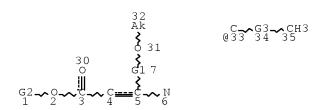
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NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L25 488 SEA FILE=REGISTRY SSS FUL L23

L32 STR



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     EP 1756059
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     US 20070232837
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                                           US 2006-568337
                                                                   20061026
     IN 2006CN04011
                        А
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                                           IN 2006-CN4011
                                                                   20061101
PRIORITY APPLN. INFO.:
                                            CH 2004-765
                                                               A 20040430
                                            WO 2005-EP4681
                                                                W 20050429
OTHER SOURCE(S):
                        CASREACT 143:459878; MARPAT 143:459878
     A multi-step process for the preparation of cyclic diketones [e.g., 4-(4-
     chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented.
ΙT
     380355-55-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (in a multi-step process for the production of cyclic diketones)
RN
     380355-55-5 HCAPLUS
     3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-
CN
       (CA INDEX NAME)
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RN 380355-62-4 HCAPLUS
CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-
, 4-oxobicyclo[3.2.1]oct-2-en-2-yl ester (CA INDEX NAME)
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RN 869089-17-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-, 3-oxo-1-cyclohexen-1-yl ester (CA INDEX NAME)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1196142 HCAPLUS Full-text

DOCUMENT NUMBER: 143:459877

TITLE: Process for the production of cyclic diketones INVENTOR(S): Jackson, David Anthony; Edmunds, Andrew; Bowden,

Martin Charles; Brockbank, Ben

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta

Limited

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. K				KIND DATE				APPLICATION NO.					DATE				
		2005105718 2005105718			A2 A3		20051110			WO 2005-EP4680					20050429		
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	RW:	BW, AZ, EE, RO,	GH, BY, ES, SE,	KG, FI, SI,	KZ, FR,	MD, GB, TR,	MW, RU, GR, BF,	TJ, HU,	TM, IE,	AT, IS,	BE, IT,	BG, LT,	CH, LU,	CY, MC,	CZ, NL,	DE, PL,	DK, PT,

AU 2005238194 A1 20051110 AU 2005-238194 20050429 A1 CA 2562152 20051110 CA 2005-2562152 20050429 EP 1740524 A2 20070110 EP 2005-738471 20050429 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR CN 1950319 20070418 CN 2005-80013809 20050429 Α BR 2005-10492 BR 2005010492 Α 20071113 20050429 JP 2007535515 Т 20071206 JP 2007-509988 20050429 MX 2006PA12161 20070117 MX 2006-PA12161 A 20061020 KR 2007008671 A 20070117 KR 2006-722687 20061030 IN 2006CN04021 Α 20070810 IN 2006-CN4021 20061101 A1 20080612 US 2007-568077 US 20080139816 20070928 A 20040430 PRIORITY APPLN. INFO.: CH 2004-766 WO 2005-EP4680 W 20050429 CASREACT 143:459877; MARPAT 143:459877 OTHER SOURCE(S): A process for the preparation of cyclic diketones [e.g., 4-(4chlorophenylcarbonyloxy)bicyclo[3.2.1]oct-3-en-2-one] is presented. ΙT 380355-55-5 RL: RCT (Reactant); RACT (Reactant or reagent)

(in a process for the production of cyclic diketones) RN 380355-55-5 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-(CA INDEX NAME)

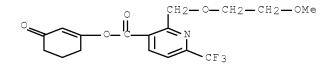
352010-68-5P 380355-62-4P 869089-17-8P ΙT RL: SPN (Synthetic preparation); PREP (Preparation) (process for the production of cyclic diketones) 352010-68-5 HCAPLUS RN

Bicyclo[3.2.1]oct-3-en-2-one, 4-hydroxy-3-[[2-[(2-methoxyethoxy)methyl]-6-CN (trifluoromethyl)-3-pyridinyl]carbonyl]- (CA INDEX NAME)

380355-62-4 HCAPLUS RN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-CN , 4-oxobicyclo[3.2.1]oct-2-en-2-yl ester (CA INDEX NAME)

RN 869089-17-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 2-[(2-methoxyethoxy)methyl]-6-(trifluoromethyl)-, 3-oxo-1-cyclohexen-1-yl ester (CA INDEX NAME)



L47 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1195899 HCAPLUS Full-text

DOCUMENT NUMBER: 143:459792

TITLE: Bromination and oxidative debromination process for

the preparation of cyclic diketones from cycloalkenes

INVENTOR(S): Jackson, David Anthony; Edmunds, Andrew; Bowden,

Martin Charles; Brockbank, Ben

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta

Limited

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIN	D	DATE APP				PPLICATION NO.					DATE		
WO 2005105717				A1	_	20051110		•	 WO 2	 005-:	 EP46	20050429					
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
		NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,
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		ZM,	ZW														
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,
		MR,	ΝE,	SN,	TD,	ΤG											
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PRIORITY APPLN. INFO.:

CH 2004-764 A 20040430

OTHER SOURCE(S): CASREACT 143:459792; MARPAT 143:459792

AB A bromination and oxidative debromination process for the preparation of cyclic diketones (e.g., bicyclo[3.2.1]octane-2,4-dione) from cycloalkenes

(e.g., bicyclo[3.2.1]oct-2-ene), in which bromination of a cycloalkene followed by treatment of the brominated intermediate (e.g., 2,4,4-tribromobicyclo[3.2.1]oct-2-ene) with an aqueous solution of an acid or a base, is presented.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1997:565052 HCAPLUS Full-text

DOCUMENT NUMBER: 127:207250

ORIGINAL REFERENCE NO.: 127:40253a,40256a

TITLE: 6-(Trifluoromethyl)pyrid-2-one: development and

scale-up of a ring synthesis route based on

trifluoroacetic anhydride

AUTHOR(S): Brown, Stephen M.; Bowden, Martin C.; Parsons, Tracy

J.; McNeilly, P.; de Fraine, Paul J.

CORPORATE SOURCE: Process Technology Department, Zeneca Limited,

Huddersfield, HD2 1FF, UK

SOURCE: Organic Process Research & Development (1997), 1(5),

370-378

CODEN: OPRDFK; ISSN: 1083-6160

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

Three routes to 6-(trifluoromethyl)-2-pyridone involving de novo synthesis of the pyridine ring have been investigated which would potentially allow rapid semi-tech. scale manufacture A route starting from Et 4,4,4- trifluoroacetoacetate (β -keto ester route) has been demonstrated. Development of the route was attempted; however, poor yields at a number of stages and scale-up difficulties made this route unattractive for com. use. A four-stage route starting from trifluoroacetic anhydride and Et vinyl ether has been developed which gives good yields and productivity for all stages. The final stage of this route is a difficult decarboxylation of a nicotinic acid derivative, but an 80% yield of the required pyridone with a purity of >99.5% could be achieved without a sep. purification stage. The route was scaled up

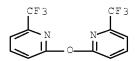
to 2 kL, and several hundred kilograms of product was prepared IT 194673-14-8P, Bis[6-(trifluoromethyl)-2-pyridyl] ether

RL: BYP (Byproduct); PREP (Preparation)

(byproduct; trifluoromethylpyridone production by ring synthesis route)

RN 194673-14-8 HCAPLUS

CN Pyridine, 2,2'-oxybis[6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



IT 191595-63-8P, 3-Carboxy-6-(trifluoromethyl)-2-pyridone
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (intermediate; trifluoromethylpyridone production by ring synthesis route)

RN 191595-63-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

IT 17129-06-5P 116548-03-9P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; trifluoromethylpyridone production by ring synthesis route)

RN 17129-06-5 HCAPLUS

CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro- (CA INDEX NAME)

RN 116548-03-9 HCAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

IT 194673-13-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; trifluoromethylpyridone production by ring synthesis route)

RN 194673-13-7 HCAPLUS

CN 3-Pyridinecarboxylic acid, 1,6-dihydro-6-oxo-2-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

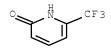
IT 34486-06-19, 6-(Trifluoromethyl)-2-pyridone

RL: IMF (Industrial manufacture); PREP (Preparation)

(production by ring synthesis route based on trifluoroacetic anhydride)

RN 34486-06-1 HCAPLUS

CN 2(1H)-Pyridinone, 6-(trifluoromethyl)- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1997:461426 HCAPLUS Full-text

DOCUMENT NUMBER: 127:65687

ORIGINAL REFERENCE NO.: 127:12559a,12562a

TITLE: Process for the preparation of 6-Trifluoro-, 6-chlorodifluoro- and 6-difluoromethyl-2-

hydroxypyridine by decarboxylating nicotinic acid

derivs.

INVENTOR(S): De Fraine, Paul John; Bowden, Martin Charles;

Mcneilly, Patrick

PATENT ASSIGNEE(S): Zeneca Limited, UK

SOURCE: Brit. UK Pat. Appl., 18 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND	DATE	APPLICATION NO.		DATE
A	19970402	GB 1996-19011		19960911
FO.:		GB 1995-18897	A	19950915
		GB 1996-2622	A	19960209
	A	A 19970402	A 19970402 GB 1996-19011 GB 1995-18897	A 19970402 GB 1996-19011 GB 1995-18897 A

OTHER SOURCE(S): CASREACT 127:65687

AB 6-Trifluoro-, 6-chlorodifluoro- and 6-difluoromethyl-2-hydroxypyridines are prepared by decarboxylating the corresponding nicotinic acid at a temperature above 190°C at normal atmospheric pressure. 6-Trifluoro-, 6-chlorodifluoro- and 6-difluoromethyl-2-hydroxy-nicotinic acids are novel compds. and are prepared by hydrolyzing the corresponding nicotinic acid ester or amide or the corresponding nitrile. Thus, 2949 g of quinoline and 2710 g of 2-hydroxy-6-trifluoromethyl nicotinic acid were charged to a split-neck reaction flask fitted with a reflux condenser and thermometer and while agitating heated to 235°C. The reaction liquors were held for 4 h at 235°C while decarboxylation was monitored. Toluene, water, and caustic soda were added and the liquors were repeatedly agitated, filtered, and allowed to settle for separation until HCl was added to precipitate 83.5% yield of desired product 2-hydroxy-6-trifluoromethylpyridine. The pyridines are useful chemical intermediates in the preparation of agricultural products. A process for the preparation of a intermediate compound of formula CF2XCOCH=CHOR3 is also disclosed.

IT 59938-06-6P 116548-02-8P 116548-03-9P,

2-Hydroxy-6-trifluoromethylnicotinamide 116548-04-0P

170118-79-3P 191595-63-8P, 2-Hydroxy-6-

trifluoromethylnicotinic acid 191595-67-2P 191595-68-3P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(process for preparation of 6-Trifluoro-, 6-chlorodifluoro- and 6-difluoromethyl-2-hydroxypyridine by decarboxylating nicotinic acid derivs.)

RN 59938-06-6 HCAPLUS

CN 3-Buten-2-one, 4-ethoxy-1,1,1-trifluoro-, (3E)- (CA INDEX NAME)

Double bond geometry as shown.

RN 116548-02-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 1,2-dihydro-2-oxo-6-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

RN 116548-03-9 HCAPLUS

CN 3-Pyridinecarboxamide, 1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

RN 116548-04-0 HCAPLUS

CN 3-Pyridinecarbonitrile, 1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

RN 170118-79-3 HCAPLUS

CN 3-Buten-2-one, 1-chloro-4-ethoxy-1,1-difluoro-, (3E)- (CA INDEX NAME)

Double bond geometry as shown.

RN 191595-63-8 HCAPLUS

CN 3-Pyridinecarboxylic acid, 1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

RN 191595-67-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 6-(chlorodifluoromethyl)-1,2-dihydro-2-oxo-(CA INDEX NAME)

RN 191595-68-3 HCAPLUS

CN 3-Pyridinecarboxamide, 6-(chlorodifluoromethyl)-1,2-dihydro-2-oxo- (CA INDEX NAME)

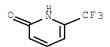
IT 34486-06-1P, 2-Hydroxy-6-trifluoromethylpyridine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for preparation of 6-Trifluoro-, 6-chlorodifluoro- and 6-difluoromethyl-2-hydroxypyridine by decarboxylating nicotinic acid derivs.)

RN 34486-06-1 HCAPLUS

CN 2(1H)-Pyridinone, 6-(trifluoromethyl)- (CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 08:20:23 ON 29 AUG 2008
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         78538 SEA SSS FUL L13
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L17
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L42
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               D STAT QUE L42
               D IBIB ABS HITSTR L42 1-2
L43
            373 SEA ABB=ON PLU=ON JACKSON D/AU OR JACKSON D A/AU OR JACKSON
               DAVID/AUJACKSON DAVID A/AU OR JACKSON DAVID A JR/AU OR JACKSON
               DAVID ANTHONY/AU
             79 SEA ABB=ON PLU=ON BOWDEN M/AU OR BOWDEN M C/AU OR BOWDEN
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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 AUG 2008 HIGHEST RN 1044280-23-0 DICTIONARY FILE UPDATES: 27 AUG 2008 HIGHEST RN 1044280-23-0

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